(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 9 September 2005 (09.09.2005)

(10) International Publication Number WO 2005/083129 A1

(51) International Patent Classification7:

C12Q 1/70

(21) International Application Number:

PCT/GB2005/000774

(22) International Filing Date: 28 February 2005 (28.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0404315.4

26 February 2004 (26.02.2004)

(71) Applicant (for all designated States except US): NORCHIP A/S [NO/NO]; Industriveien 8, N-3490 Klokkarstua (NO).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): KARLSEN, Frank [NO/NO]; c/o Norchip A/S, Industriveien 8, N-3490 Klokkarstua (NO). WHITE, Nina, Louise [GB/GB]; c/o Boult Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT (GB).
- (74) Agents: WHITE, Nina, Louise et al.; Boult Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DETECTION OF HUMAN PAPILLOMAVIRUS

(57) Abstract: The present invention relates to in vitro methods of screening human subjects for the presence of human papillomavirus (HPV) which exhibits loss of regulation of E6/E7 mRNA expression and loss of replication and/or expression of a stabilized pre-mRNA encoding full length E6 protein. In particular, the invention provides in vitro methods of screening for persistent cell abnormalities or persistent CIN III lesions, cancer in situ or high-grade squamous intraepithelial lesions (HSIL). The methods are useful in the context of cervical cancer screening.

